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... unreliable at points of surface orientation discontinuities, these ... votes is proportional to the magnitude of curvature ... directions if only the direction of the ...

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... estimated than quantita- tive ones (eg curvature magnitude). ... effectively encodes preferred direction, while avoiding ... nance of global orientation consistency. ...

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... curvature in four different directions 45 degrees ... is implicitly addressed by the weighted area constraint in ... these results, we estimate (vote for) directional ...

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... K is a scalar chosen such that that the magnitude of the ... value of the curvature, which is an indicator of the orientation's strength ... [0084] The direction of the ...

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WS Tong, CK Tang, G Medioni - IEEE COMPUTER SOCIETY CONFERENCE ON COMPUTER VISION AND ... , 2001 - doi.ieeeecomputersociety.org

... one orientation of the curvature direction is chosen. ... the likelihood, is inversely proportional to the arc length PQ , and related to the magnitude of the ...

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... curvature is proportional to the magnitude of Gaussian ... T i and thus the principal directions and principal ... we estimate the normal vector orientation for each ...

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... the token has no preference of orientation, and the ... accumulated result is a vector whose direction points to ... votes are cast and whose magnitude encodes polarity ...


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... The major drawback, however, is that it follows from the second derivative of a surface and as such is often ... Our goal is to estimate the curvature of a ...

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Y Ohtake, A Belyaev, HP Seidel - ACM Transactions on Graphics (TOG), 2004 - portal.acm.org

... Indeed, moving from one mesh vertex to another changes discontinuously the local vertex neighborhood where a local curvature estimation scheme is used and ...

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... and Medioni [15] extended the tensor voting mechanism by ... The definition involves principal curvatures, whose estimation will be ... 2 Concept of a Curvature-Based ...

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... A more precise estimate of model-data distances improves the estimation of curvature and torsion• (d) The constraint on the second derivative also improves ...

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... But they prove that no such filter exists for second derivative operations in two dimensions. ... In Fig. 5(a) we obtain a very noisy estimate of curvature as a ...

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I Douros, BF Buxton - Scanning, 2002 - somavision.co.uk

... More recent works include those of Tang and Medioni ([TaMe99] - robust curvature estimation from noisy data using a Tensor Voting scheme) and Mokhtarian et. ...

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J van de Weijer, LJ van Vliet, PW Verbeek, M van ... - IEEE TRANSACTIONS ON PATTERN ANALYSIS AND MACHINE ..., 2001 - doi.ieeeecomputersociety.org

... isophote (tangential) curvature (the second derivative along the ... which do yield a curvature estimate for oriented ... involves accumulation of evidence by voting. ...

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